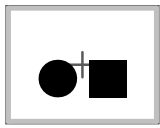PBAT

U1

U2

DS2

R2

DS1

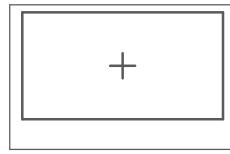R1
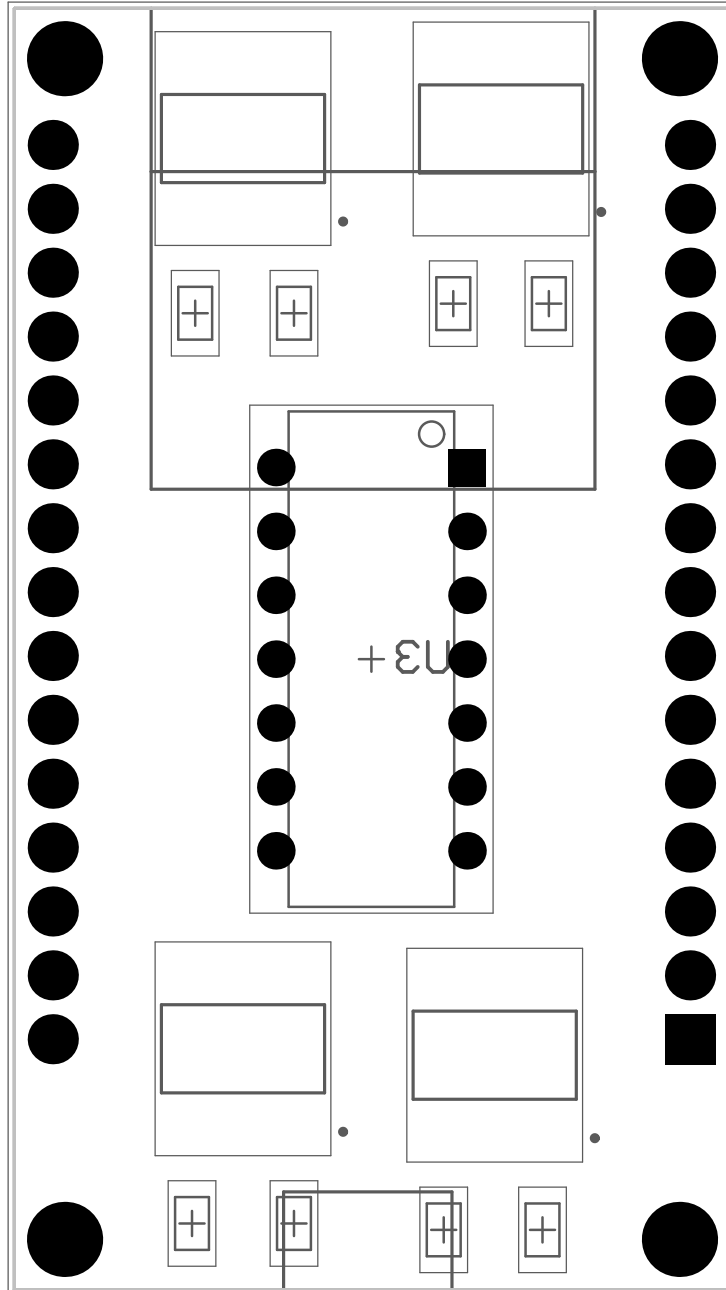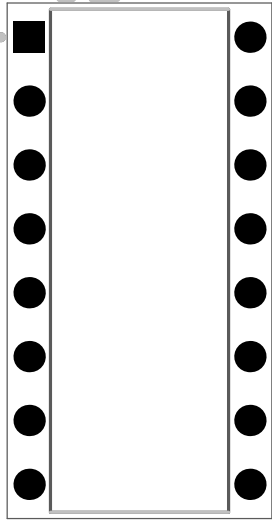
R3

R4

RED
DRAGONS
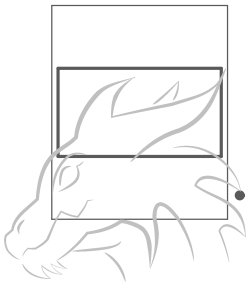
PBAT

U1

U2

U3+

DS2

R2

DS1
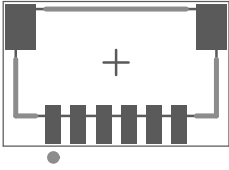
R1

R3

R4

J2 J1

VR5 VR3

C8 C9 C10 U3 C6

VR1

VR4 VR2

C1 C2

C4 C3 C8 C7

U3+
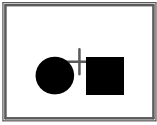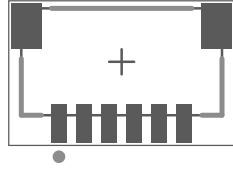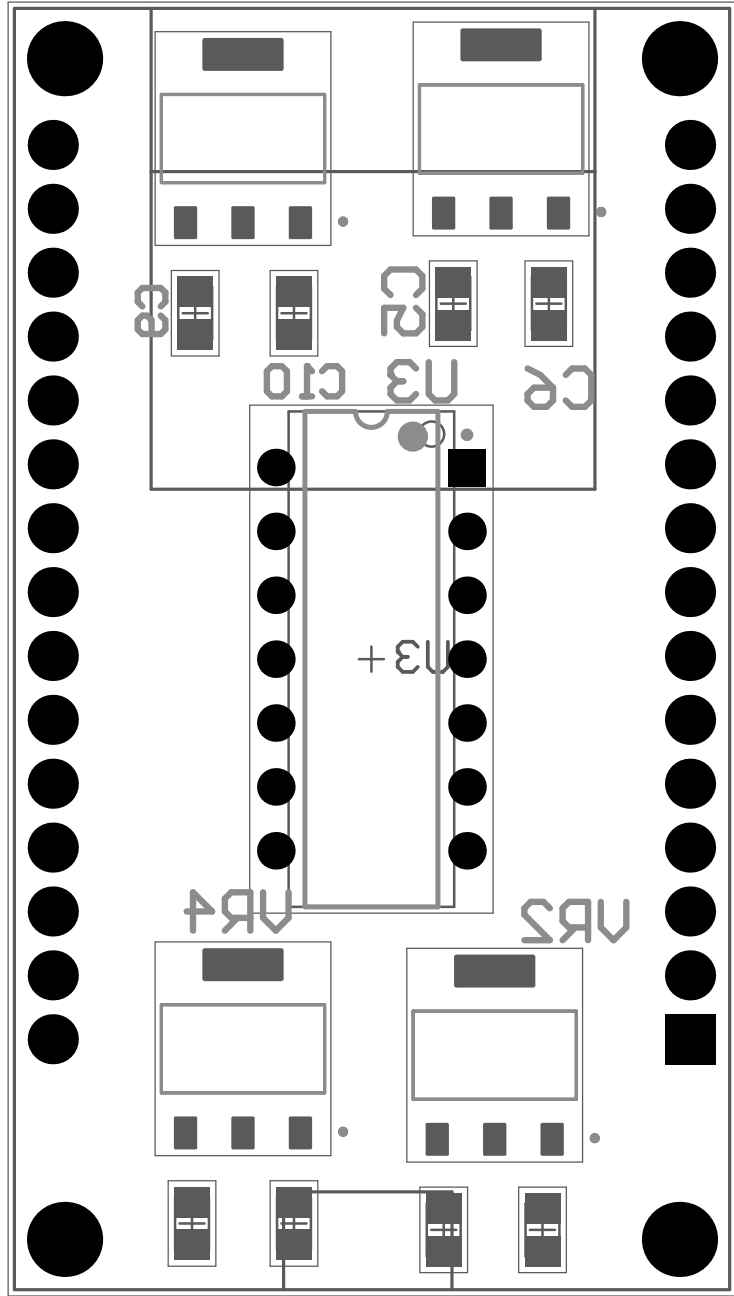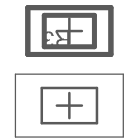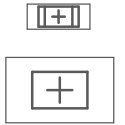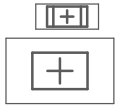
Comment	Description	Designator	Footprint	LibRef	Quantity
330nF	General Purpose Ceramic Capacitor, 0805, 330nF, 10%, X7R, 15%, 16V	C1	FP-0805-L_2_01_0_2-W_1_25-IPC_B	CMP-2007-04657-2	1
100nF		C2	CAPC2013X140X50LL2 0T25	CMP-2007-04746-1	1
Capacitor 10 uF +/-10% 16 V 0805	Chip Capacitor, 10 uF, +/- 10%, 16 V, 0805 (2012 Metric)	C3, C4, C5, C6, C7, C8, C9, C10	CAPC2013X135X45NL 10T25	CMP-001-00015-6	8
LTST-C190KFKT	LED Uni-Color Orange, 75 mW, 30 mA, -35 to 85 degC, 2-Pin SMD, RoHS, Tape and Reel	DS1, DS2	LTST-C190KFKT_V	CMP-007-00023-2	2
JST-SH-6Pin	Male Header, Pitch 1 mm, 1 x 6 Position, Height 2.95 mm, -25 to 85 degC, RoHS, Tape and Reel	J1, J2	JST-SM06B-SRSS-TB_V	CMP-2000-07080-1	2
JST PH 2-PIN	Male Header, Pitch 2 mm, 1 x 2 Position, Height 6 mm, Tail Length 3.4 mm, -25 to 85 degC, RoHS, Bulk	PBAT	JST-B2B-PH-K-S_V	CMP-2000-05162-1	1
ERA6AEB101V		R1, R2	RESC2013X60X40ML2 0T25	CMP-2001-00580-1	2
22k	Thick Film Chip Resistors 0805 22kΩ 0.125W 5% 200ppm/°C	R3	FP-CR0805-IPC_B	CMP-07231-001007-1	1
Resistor 10k +/-1% 0805 125 mW	Chip Resistor, 10 KOhm, +/- 1%, 125 mW, -55 to 155 degC, 0805 (2012 Metric)	R4	RESC2013X50X35ML1 5T15	CMP-009-00018-5	1
ESP32-DEVKIT-V1	Dual core, Wi-Fi: 2.4 GHz up to 150 Mbits/s,BLE (Bluetooth Low Energy) and legacy Bluetooth, 32 bits, Up to 240 MHz	U1	MODULE_ESP32_DEV KIT_V1	ESP32-DEVKIT-V1	1
L293D	4-Channel Motor Driver 24V 16-Pin Power PDIP Tube	U2	DIP880W50P254L2000 H510Q16	L293D	1
SN74HC86N	4-ch, 2-input, 2-V to 6-V XOR (exclusive OR) gates 14-PDIP -40 to 85	U3	N0014A	CMP-024-00000-1	1
AMS1117-5.0		VR1	SOT229P700X180-4N	AMS1117-5.0	1
AMS1117-3.3	Sot223/Pkg 1-Amp 3.3-Volt Low Drop Out Voltage Regulatator	VR2, VR3, VR4, VR5	SOT229P700X180-4N	AMS1117-3.3	4